NC/QC/DD-W12/2019-20/KM-C1 Date: 07-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**176 min**	Shall not be less than 30 min
2	Final setting time	**282 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.90 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.65 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.91 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/DD-W12/2019-20/KM-PCC1 Date: 07-01-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.15	0 -20	30- 70
10mm	30.95	0 -5	10- 35
4.75mm	4.40	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.70	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.90	60-95	75-100	85-100	
01.18	66.50	30-70	55-90	75-100	
600.mic	50.20	15-34	35-59	60-79	
300.mic	29.05	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

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NC/QC/DD-W12/2019-20/KM-PCC2 Date: 11-01-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	58.35	0 -20	30- 70
10mm	26.10	0 -5	10- 35
4.75mm	3.75	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.05	60-95	75-100	85-100	
01.18	69.70	30-70	55-90	75-100	
600.mic	44.35	15-34	35-59	60-79	
300.mic	21.60	5-20	8-30	12-40	
150.mic	8.25	0-10	0-10	0-10	

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NC/QC/DD-W12/2019-20/KM-PCC3 Date: 17-01-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.85	0 -20	30- 70
10mm	32.10	0 -5	10- 35
4.75mm	3.95	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.80	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.35	60-95	75-100	85-100	
01.18	73.10	30-70	55-90	75-100	
600.mic	49.60	15-34	35-59	60-79	
300.mic	22.75	5-20	8-30	12-40	
150 mic	6.95	0-10	0-10	0-10	

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NC/QC/DD-W12/2019-20/KM--FA1 Date: 22-01-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.90**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.35**	60-95	75-100	85-100	
01.18	**72.60**	30-70	55-90	75-100	
600. mic	**44.10**	15.34	35-59	60-79	
300.mic	**20.75**	5-20	8-30	12-40	
150.mic	**7.60**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.90 %**	-----
2	Silt Content	----	**0.58 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/DD-W12/2019-20/KM-S1

Date: 22-01-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10, 12 , 16 and 20 mm **TMT Steel.**
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

TABLE – 1

		For 10 mm		For 12 mm	
o	**Details**	**Test Results**	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.624**	0.567	**0.892**	0.834
03	Proof stress/Yield stress, fy , **N/mm²**	**532.0**	500.0	**527.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**22.40**	12.00	**21.90**	12.00
06	Ultimate Tensile Strength **N/mm²**	**626.0**	545.0	**633.0**	545.0

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NC/QC/DD-W12/2019-20/KM-CB1 Date: 04-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19.
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-01-19	04-02-19	07	22500	430	19.11	18.59
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	410	18.22	

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NC/QC/DD-W12/2019-20/KM-CB2

Date: 08-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-02-19	08-02-19	07	22500	425	18.89	19.26
	002	"	"	"	"	440	19.56	
	003	"	"	"	"	435	19.33	

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